



R20 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech V Semester Regular Examinations, January 2023

SOFTWARE ENGINEERING

(CSE (DS))

Subject code: 3P5HE

Maximum Marks: 70

Date: 18.01.2023 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Discuss layered technology
- 2 Define Personal and team process models
- 3 List out the Functional requirements
- 4 Discuss Requirements validation
- 5 Define Behavioral models
- 6 What are Object models in system model
- 7 Explain Black-Box testing
- 8 Define Metrics for Analysis Model
- 9 Compare Reactive vs. Proactive Risk strategies
- 10 Discuss ISO 9000 quality standards

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. List out various Software Myths in details?
B. Define CMMI? [5+5]
OR
- 12 A. Discuss briefly about Waterfall Model.
B. Define personal and team process models. [5+5]
- 13 A. Discuss Functional and Non-functional requirements.
B. Explain Requirements engineering process. [5+5]
OR
- 14 A. Illustrate software requirement document.
B. What are System Models and Explain Context Models and Behavioral Models. [5+5]
- 15 A. Discuss about Design Process and Design Quality.
B. Explain Architectural Design Process in Detail. [5+5]
OR
- 16 A. Illustrate state chart diagram with an example.
B. Illustrate deployment diagram with an example [5+5]

- 17 A. Discuss the Need for Software Testing and Explain White box Testing?
B. Define Software Quality? [5+5]
- OR
- 18 A. Discuss Software Metrics and Explain Metrics for Analysis Model and Metrics for Design Model?
B. Explain Testing strategies for conventional software? [5+5]
- 19 A. Discuss about Risk Identification Process & Risk Projection Process?
B. Explain about RMMM in detail? [5+5]
- OR
- 20 A. Illustrate software risks?
B. Define RMMM Plan? [5+5]